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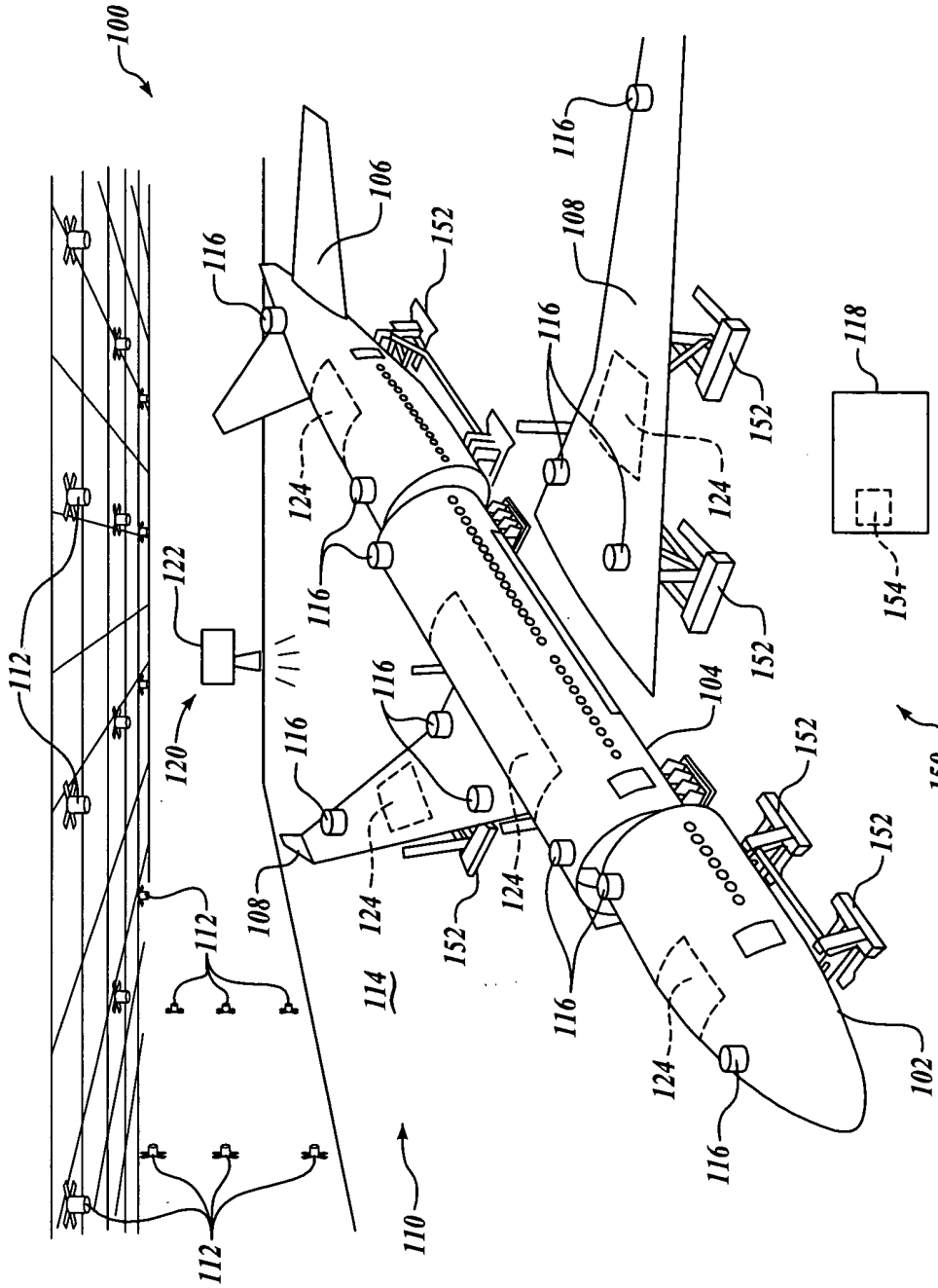

FIG.1

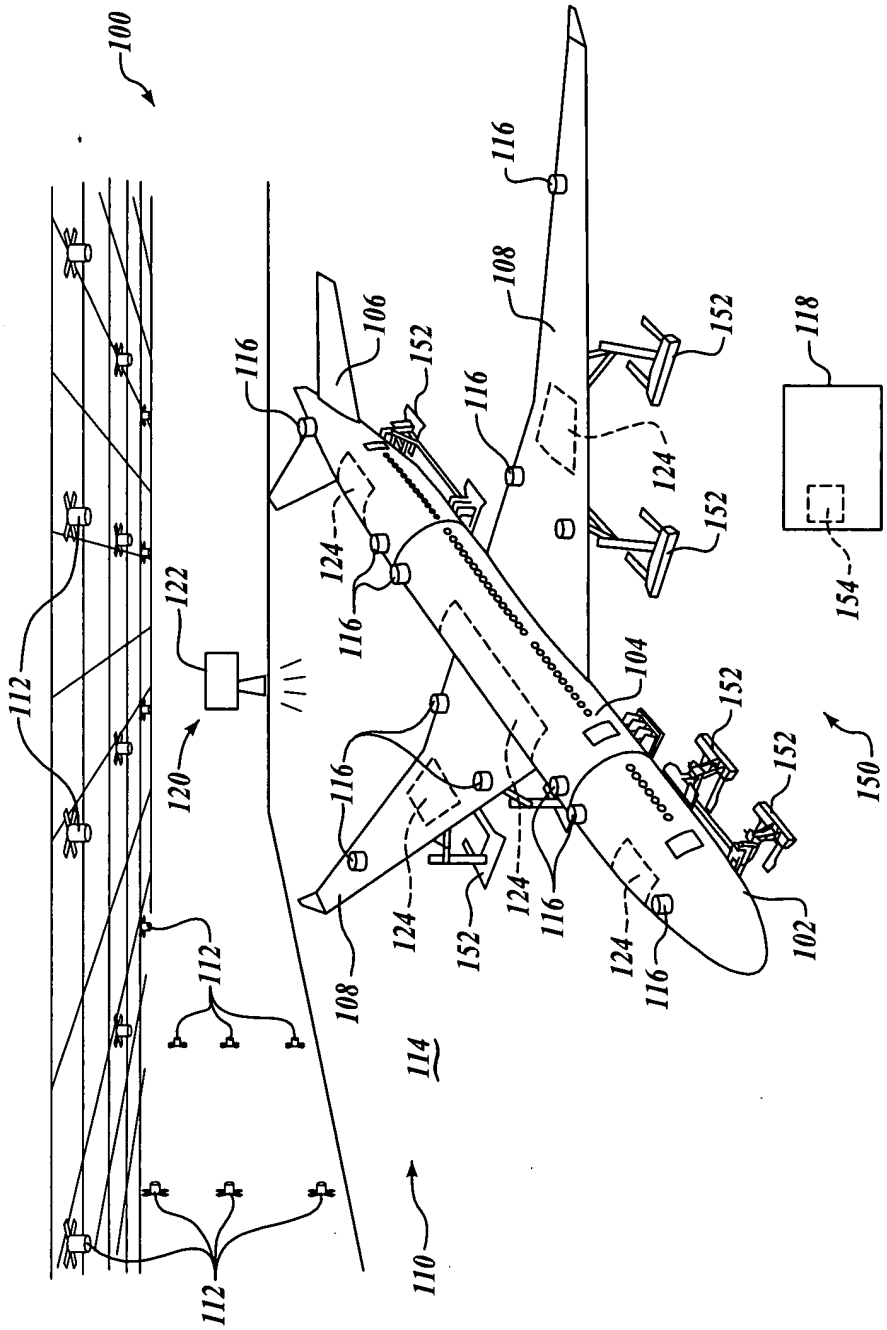

FIG.2

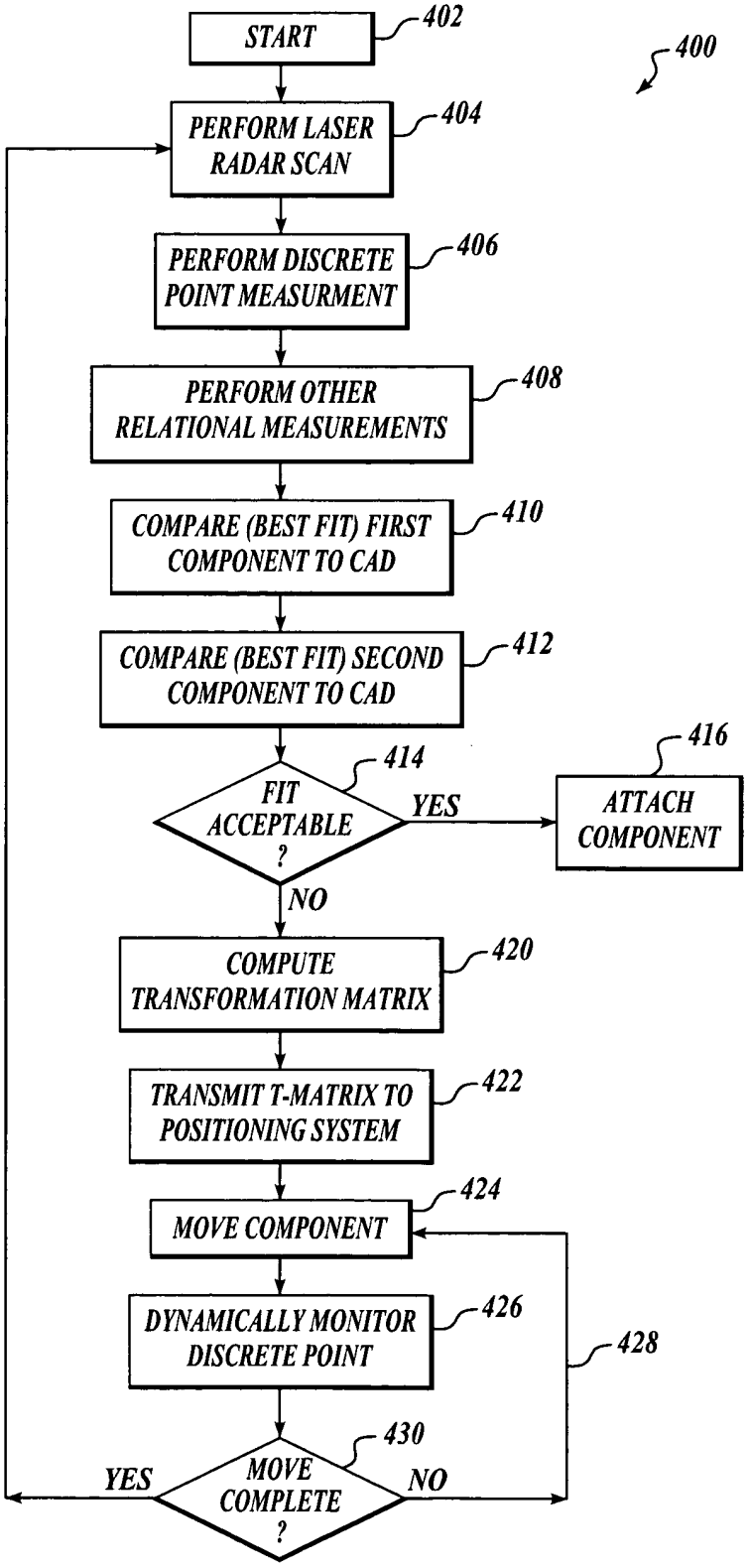
400
START
402
PERFORM LASER RADAR SCAN
404
PERFORM DISCRETE POINT MEASURMENT
406
PERFORM OTHER RELATIONAL MEASUREMENTS
408
COMPARE (BEST FIT) FIRST COMPONENT TO CAD
410
COMPARE (BEST FIT) SECOND COMPONENT TO CAD
412
FIT ACCEPTABLE ?
414
YES
ATTACH COMPONENT
416
NO
COMPUTE TRANSFORMATION MATRIX
420
TRANSMIT T-MATRIX TO POSITIONING SYSTEM
422
MOVE COMPONENT
424
DYNAMICALLY MONITOR DISCRETE POINT
426
428
MOVE COMPLETE ?
430
YES
NO

FIG.3